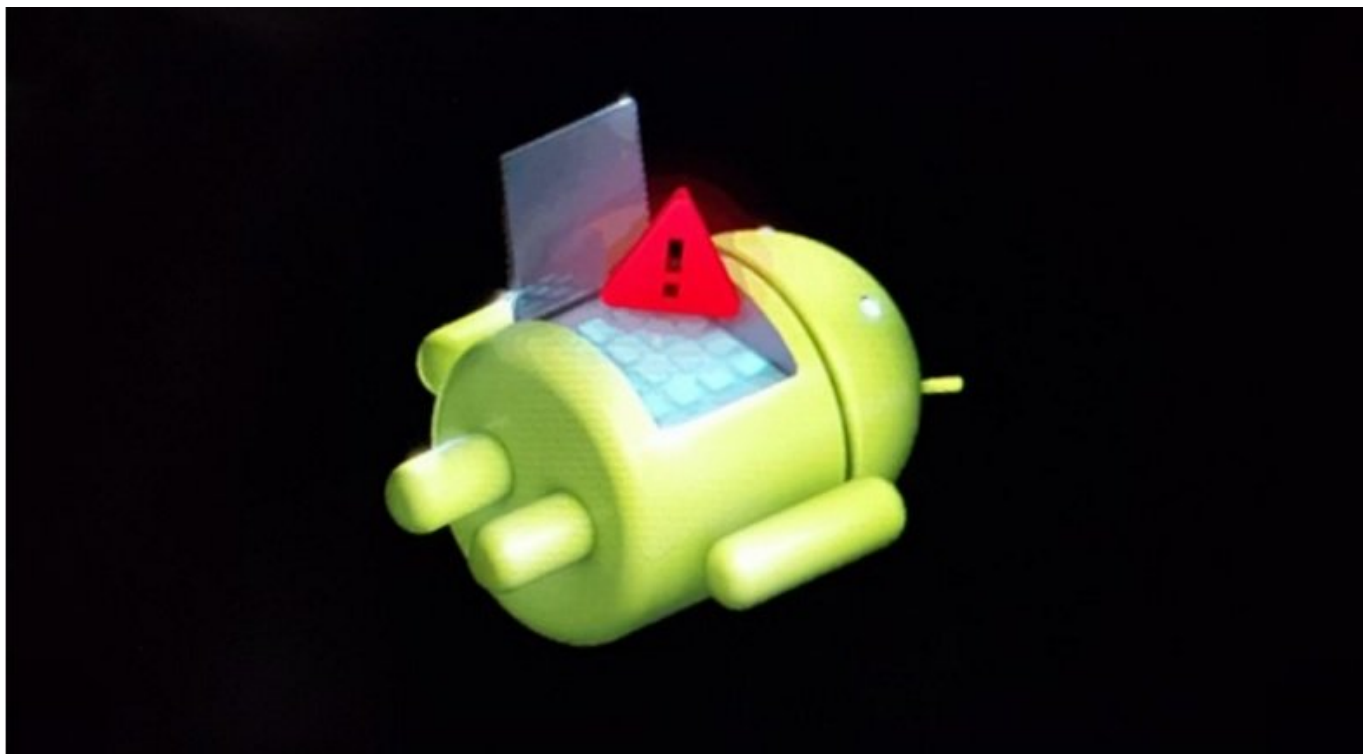


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TABLE II. ANALYZED APPLICATIONS.

Applications	jar size (MB)	Total # of connection statements	# of triggered connection statements	# of covert (% of trig.)	# of covert in known A&A (% of total covert)
air.com.sgn.cookiejam.gp	2.7	17	3	2 (66.7%)	1 (50.0%)
com.crimsonpine.stayinline	3.2	15	2	2 (100.0%)	2 (100.0%)
com.devuni.flashlight	1.4	16	3	1 (33.3%)	1 (100.0%)
com.emoji.Smart.Keyboard	0.8	3	3	2 (66.7%)	0 (0.0%)
com.facebook.katana	0.6	3	0	-	-
com.grillgames.guitarrockhero	6.2	51	14	14 (100.0%)	6 (42.8%)
com.jb.emoji.gokeyboard	5.2	42	10	7 (70.0%)	0 (0.0%)
com.king.candycrushsaga	2.6	15	1	0 (0.0%)	-
com.pandora.android	5.7	57	12	9 (75.0%)	3 (33.3%)
com.spotify.music	5.4	20	7	2 (26.6%)	1 (50.0%)
com.twitter.android	5.9	21	10	3 (30.0%)	1 (33.3%)
com.walmart.android	5.8	33	8	5 (62.5%)	3 (60.0%)
net.zedge.android	6.5	37	8	4 (50.0%)	4 (100.0%)
Total		330	81	51 (62.9%)	22 (43.1%)

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Red Laser 00000 0000 00000 0000000000 000000000 00 0000000 00 00 000 000000000 Walmart 000000 000000
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TABLE V. TOP 10 COVERT COMMUNICATION CALLERS.

	Package	Description	Used in # (%) of Apps	Covert Calls (% of total calls)
1.	com.google.android	Google services	382 (76.4%)	1913 (49.9%)
2.	com.gameloft	Mobile games	17 (3.4%)	784 (87.4%)
3.	com.inmobi	A&A services	61 (12.2%)	615 (67.6%)
4.	com.millennialmedia. android	A&A services	78 (15.6%)	447 (58.8%)
5.	com.mopub.mobileads	A&A services	72 (14.4%)	320 (56.9%)
6.	com.tapjoy	A&A services	49 (9.8%)	277 (43.8%)
7.	com.facebook	Facebook services	112 (22.4%)	222 (24.3%)
8.	com.unity3d	Gaming services	77 (15.4%)	203 (41.8%)
9.	(default)	Default package of an application	23 (4.6%)	178 (48%)
10.	com.flurry	A&A services	95 (19%)	175 (35.3%)

Table V shows the top 10 covert communication callers. The top caller is Google services, which is used in 76.4% of the apps and makes 49.9% of the total covert calls. Gameloft is the second caller, which is used in 3.4% of the apps and makes 87.4% of the total covert calls. The third caller is A&A services, which is used in 12.2% of the apps and makes 67.6% of the total covert calls. The fourth caller is A&A services, which is used in 15.6% of the apps and makes 58.8% of the total covert calls. The fifth caller is A&A services, which is used in 14.4% of the apps and makes 56.9% of the total covert calls. The sixth caller is A&A services, which is used in 9.8% of the apps and makes 43.8% of the total covert calls. The seventh caller is Facebook services, which is used in 22.4% of the apps and makes 24.3% of the total covert calls. The eighth caller is Gaming services, which is used in 15.4% of the apps and makes 41.8% of the total covert calls. The ninth caller is the default package of an application, which is used in 4.6% of the apps and makes 48% of the total covert calls. The tenth caller is A&A services, which is used in 19% of the apps and makes 35.3% of the total covert calls.

COVERT COMMUNICATION CALLERS

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موضوع: امنیت

تاریخ: ۱۳۹۴/۰۹/۰۴

ساعت: ۱۰:۳۹

محل: تهران

شماره: ۰۴/۰۹/۱۳۹۴

موضوع: امنیت

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